

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2003:990981 CAPLUS <<LOGINID::20080404>>
 DOCUMENT NUMBER: 140:52345
 TITLE: Per(3,6-anhydro)cyclodextrin derivatives, their
 preparation, and their use for the separation or
 fixation of anions based on manganese and chromium
 INVENTOR(S): Gadelle, Andree
 PATENT ASSIGNEE(S): Commissariat A L'energie Atomique, Fr.; Centre
 National De La Recherche Scientifique Cnrs
 SOURCE: Fr. Demande, 42 pp.
 CODEN: FRXXBL
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2840906	A1	20031219	FR 2002-7205	20020612
FR 2840906	B1	20040716		
WO 2003106507	A1	20031224	WO 2003-FR1741	20030611
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003250357	A1	20031231	AU 2003-250357	20030611
EP 1511774	A1	20050309	EP 2003-760007	20030611
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2005534729	T	20051117	JP 2004-513337	20030611
US 20060014722	A1	20060119	US 2005-517582	20050801
PRIORITY APPLN. INFO.:			FR 2002-7205	A 20020612
			WO 2003-FR1741	W 20030611

OTHER SOURCE(S): MARPAT 140:52345

AB Derivs. of per(3,6-anhydro) cyclodextrins having the general formulas (I) and (II) are prepared which can be used for the separation or fixation of chromate, dichromate and/or manganate anions from water or as a pharmaceutical complexing agent for humans. R1 in the general formulas I and II represents -OCONHR2, OH, OR3, SH, SR3, OCOR3, NH2, NHR3, NR3R4, CONH2, CONR3R4, CN, COOR3, OCH2COOH, or COOH, R3 and R2 represent an aliphatic, saturated or unsatd. group, R3 and R4 represent an aliphatic or aromatic hydrocarbon group which can be saturated or unsatd. and which can be substituted by halogen atoms or hetero atoms, such as O, S, and N, and n is 6, 7, or 8, or R1 represents the group OCONH(CR5R6)mNHCOOR7 with R5 and R6 being aliphatic saturated or unsatd. groups, and R7 represents glucosidic or maltosidic units of peranhydrocyclodextrin and m is a number from 1 to 20. Preferably, R1 of the per(3,6-anhydro) cyclodextrin derivative is -OCONHR2 with R2 being an Et or hexyl group and n being 6. The per(3,6-anhydro) cyclodextrin derivs. are prepared by reacting per(3, 6-anhydro) cyclodextrins having the general formulas (III) and (IV) with an isocyanate OCN-R2 or a diisocyanate OCN(CR5R6)mNCO. Polymers are obtained by reacting at least two per(3,6-anhydro) cyclodextrin derivs. having the general formulas III and IV with n and m being 6 and R5 and R6 being H. For the removal of anions from water the per(3,6-anhydro) cyclodextrin derivative or polymer is dissolved in an organic solvent immiscible with water.

IT 636599-52-5P 636599-53-6P 636599-54-7P
636599-55-8P 636599-56-9P 636599-57-0P
636599-58-1P 636599-59-2P 636599-60-5P
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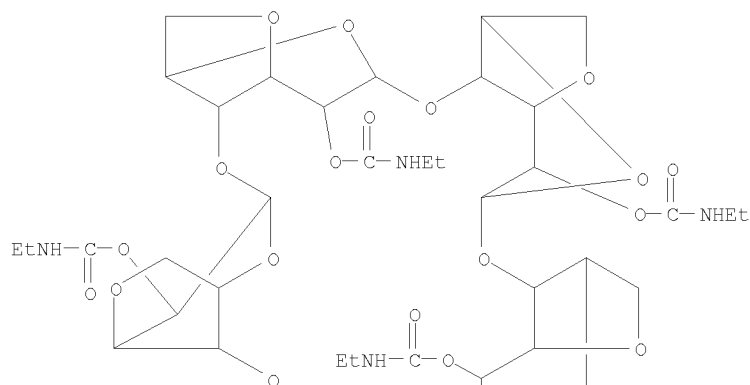
RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified);
 SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation);
 USES (Uses)

(per(3,6-anhydro)cyclodextrin derivs., their preparation, and use for the separation or fixation of anions based on manganese and chromium)

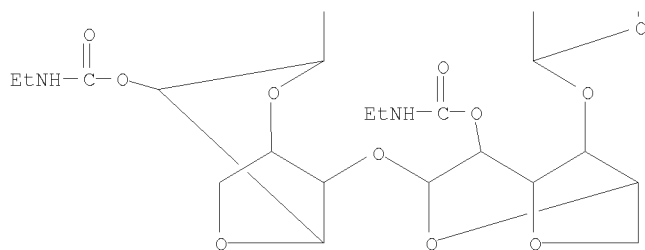
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CN α -Cyclodextrin, 3A,6A:3B,6B:3C,6C:3D,6D:3E,6E:3F,6F-hexaanhydro-, hexakis(ethylcarbamate) (9CI) (CA INDEX NAME)

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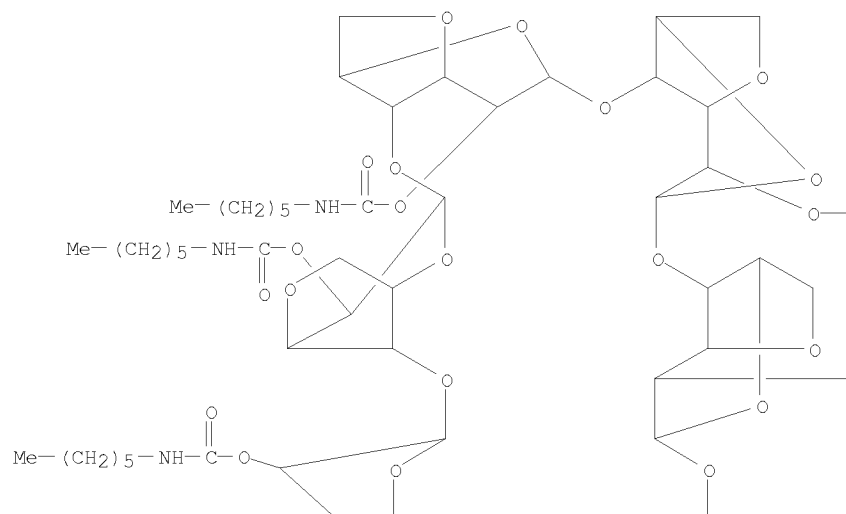
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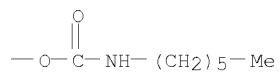
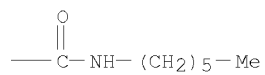
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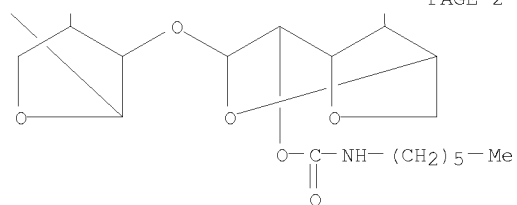
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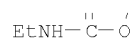
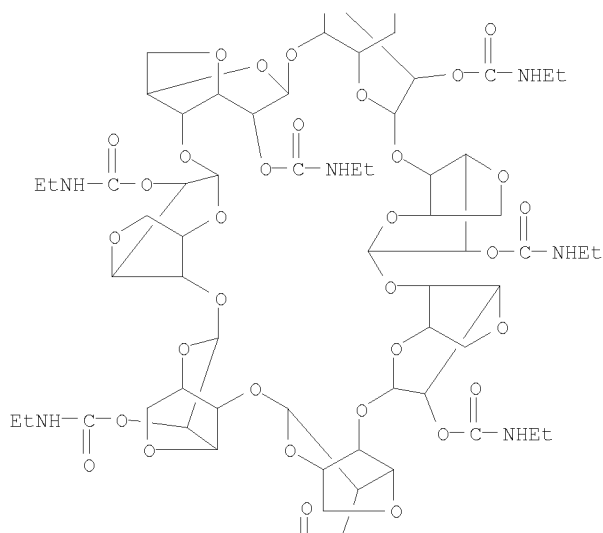


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RN 636599-54-7 CAPLUS

CN β -Cyclodextrin, 3A, 6A:3B, 6B:3C, 6C:3D, 6D:3E, 6E:3F, 6F:3G, 6G-heptaanhydro-, heptakis(ethylcarbamate) (9CI) (CA INDEX NAME)

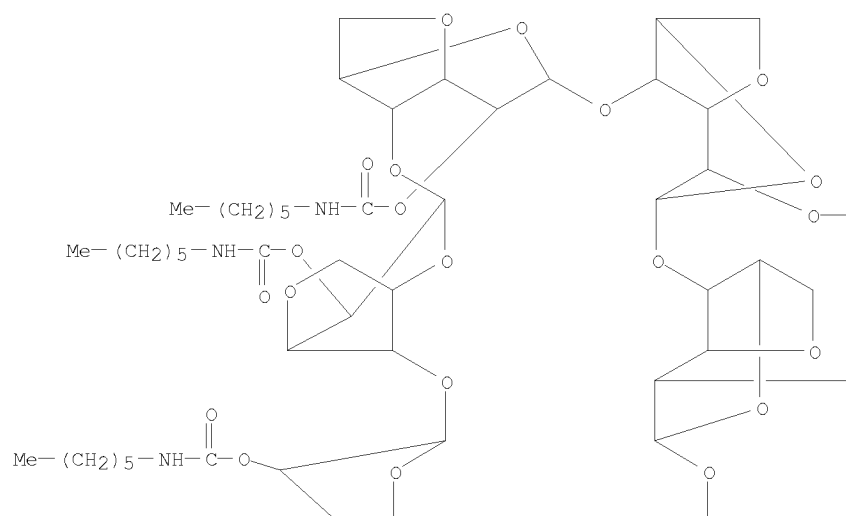


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 CN α -Cyclodextrin, 3A,6A:3B,6B:3C,6C:3D,6D:3E,6E:3F,6F-hexaanhydro-,
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 INDEX NAME)

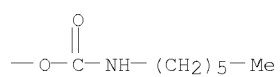
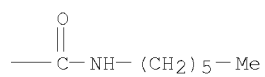
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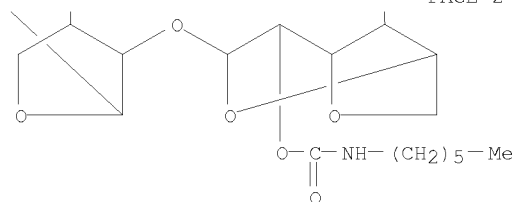
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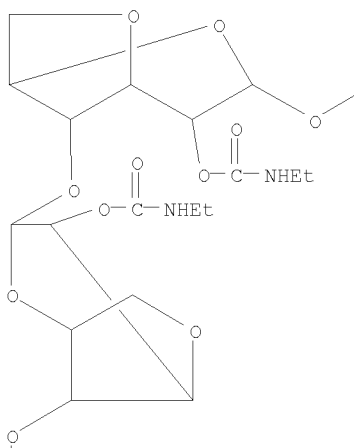
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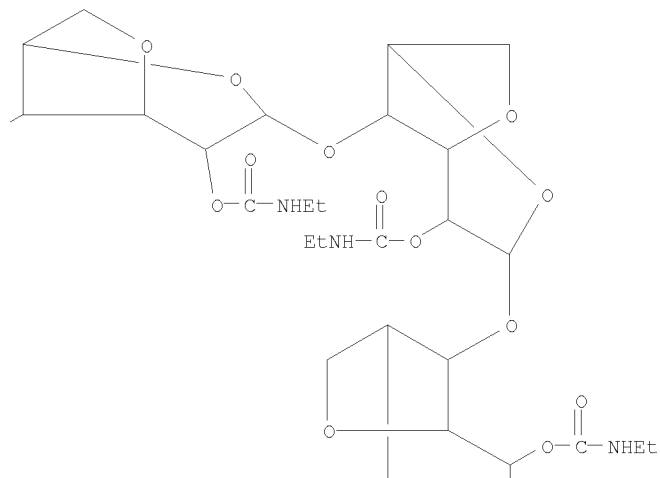
RN 636599-56-9 CAPLUS

CN γ -Cyclodextrin, 3A,6A:3B,6B:3C,6C:3D,6D:3E,6E:3F,6F:3G,6G:3H,6H-octaanhydro-, octakis(ethylcarbamate) (9CI) (CA INDEX NAME)

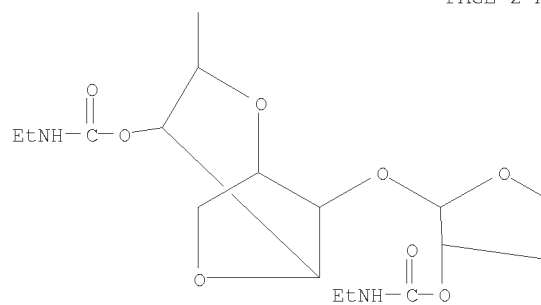
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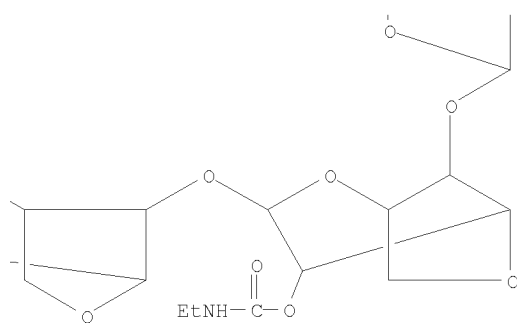
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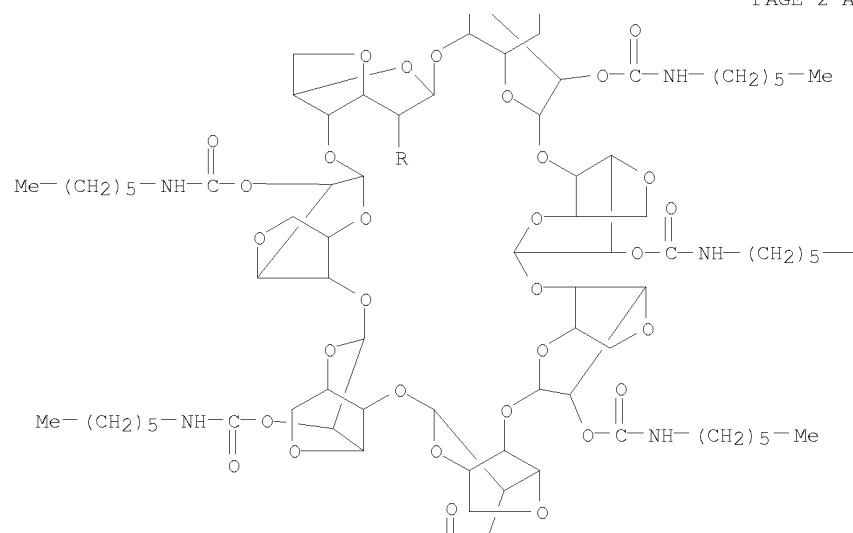
RN 636599-57-0 CAPLUS

CN β -Cyclodextrin, 3A,6A:3B,6B:3C,6C:3D,6D:3E,6E:3F,6F:3G,6G-
heptaanhydro-, heptakis(hexylcarbamate) (9CI) (CA INDEX NAME)

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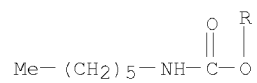
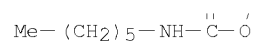
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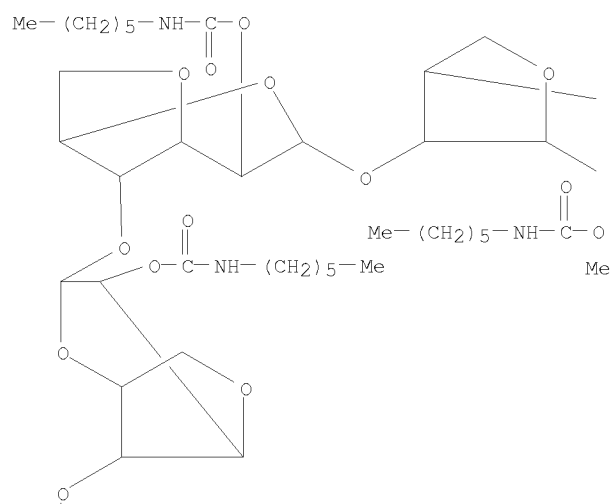
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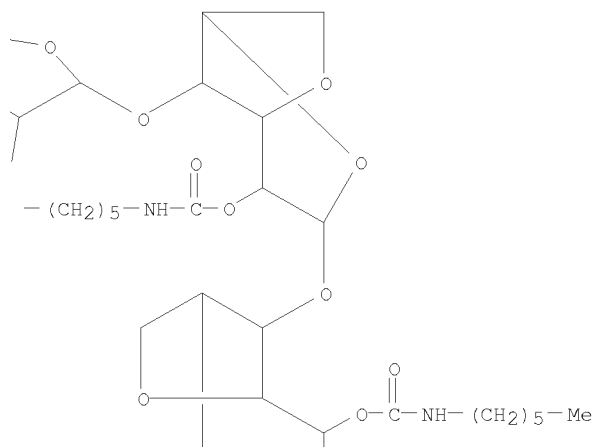
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CN γ -Cyclodextrin, 3A, 6A:3B, 6B:3C, 6C:3D, 6D:3E, 6E:3F, 6F:3G, 6G:3H, 6H-octaanhydro-, octakis(hexylcarbamate) (9CI) (CA INDEX NAME)

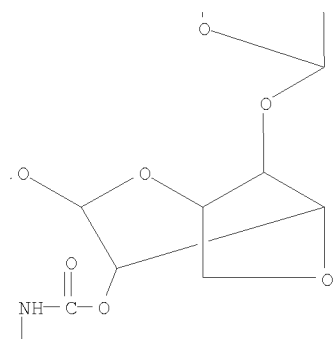
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PAGE 1-B



* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

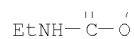
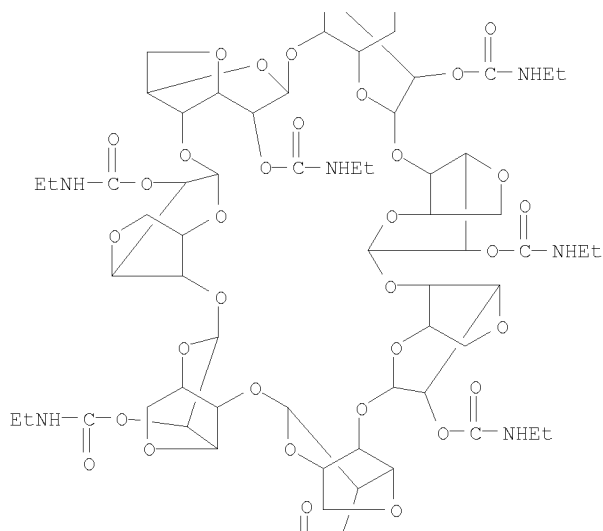


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 heptaanhydro-, heptakis(ethylcarbamate), polymer with 1,6-
 diisocyanatohexane (9CI) (CA INDEX NAME)

CM 1

CRN 636599-54-7
 CMF C63 H91 N7 O35





CM 2

CRN 822-06-0
 CMF C8 H12 N2 O2

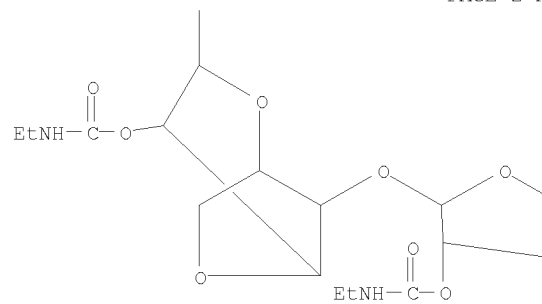
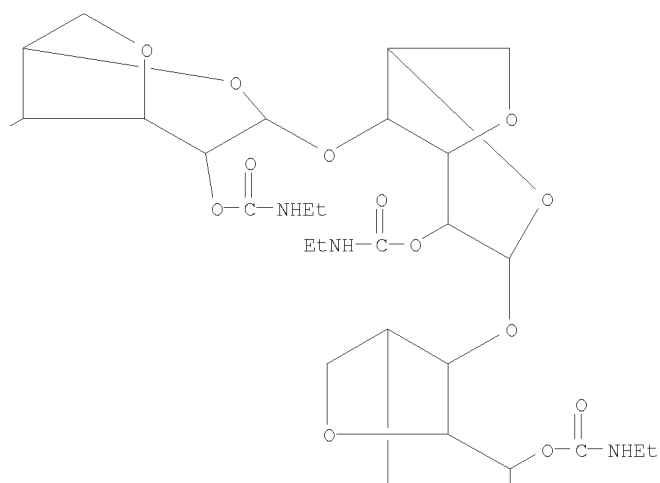
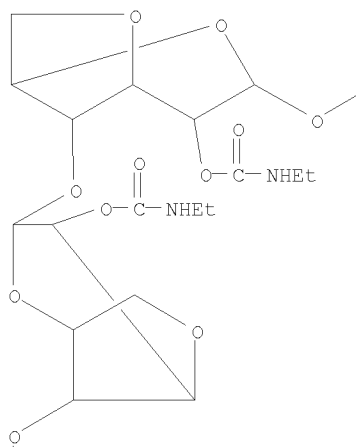
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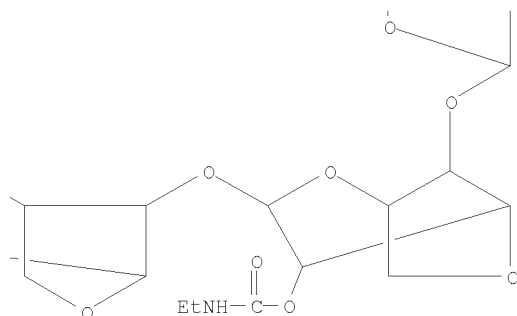
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CN γ -Cyclodextrin, 3A,6A:3B,6B:3C,6C:3D,6D:3E,6E:3F,6F:3G,6G:3H,6H-
 octaanhydro-, octakis(ethylcarbamate), polymer with 1,6-diisocyanatohexane
 (9CI) (CA INDEX NAME)

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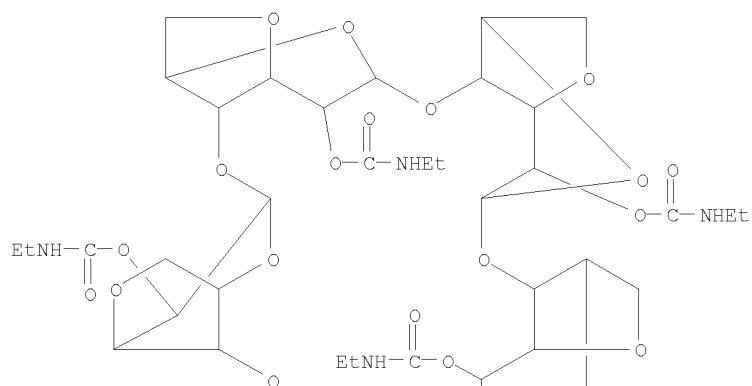
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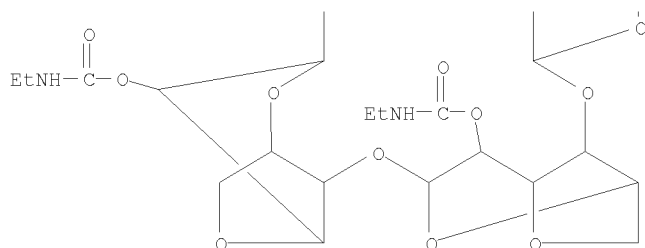
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RN 636599-63-8 CAPLUS

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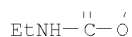
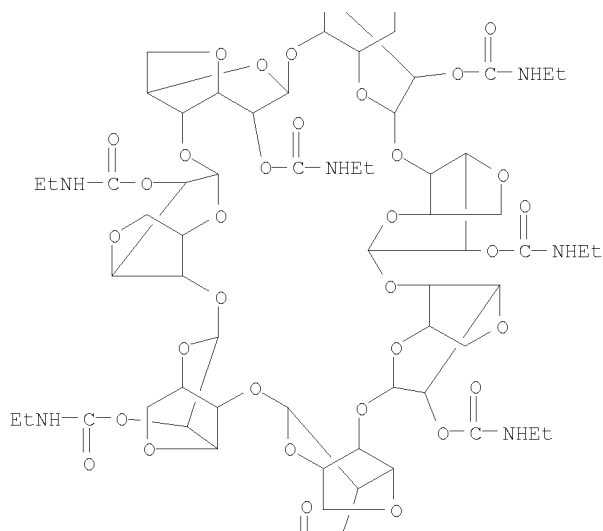




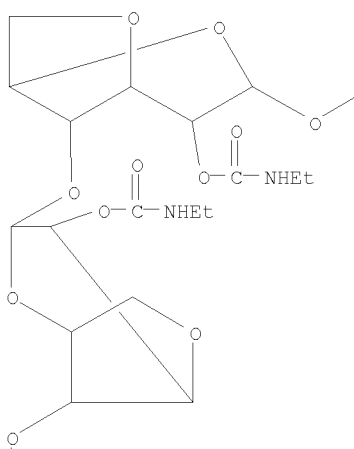
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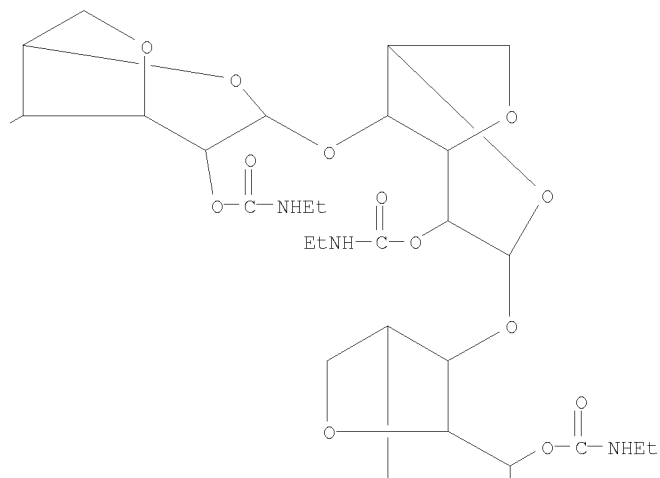




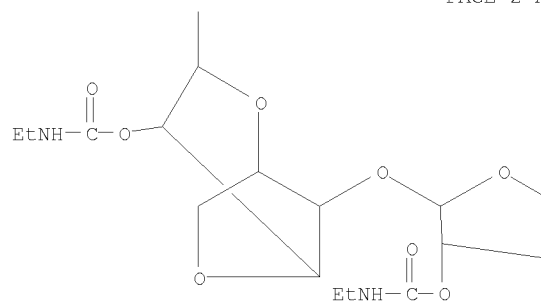
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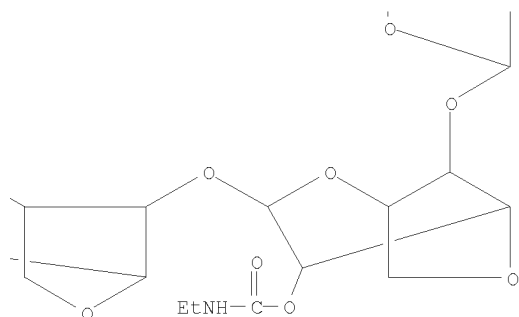
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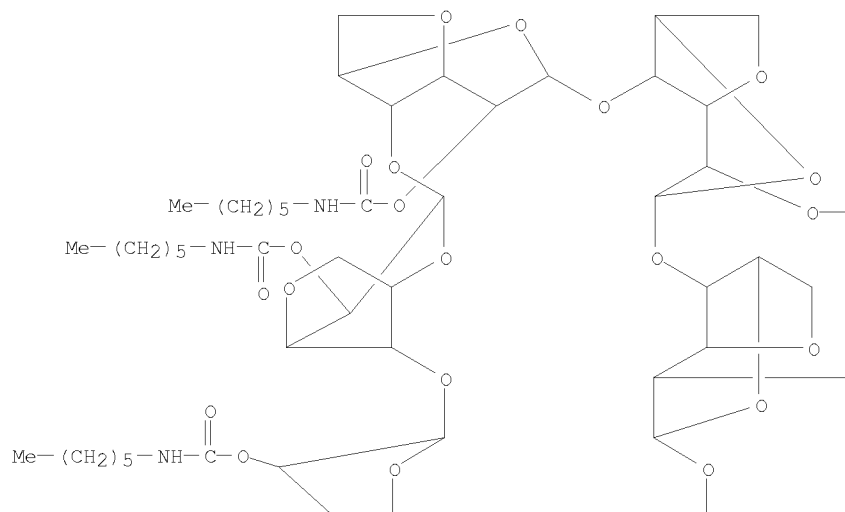
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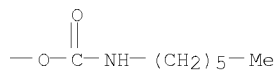
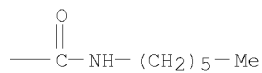
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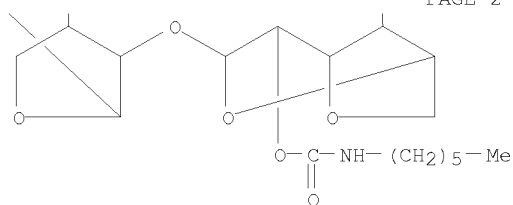
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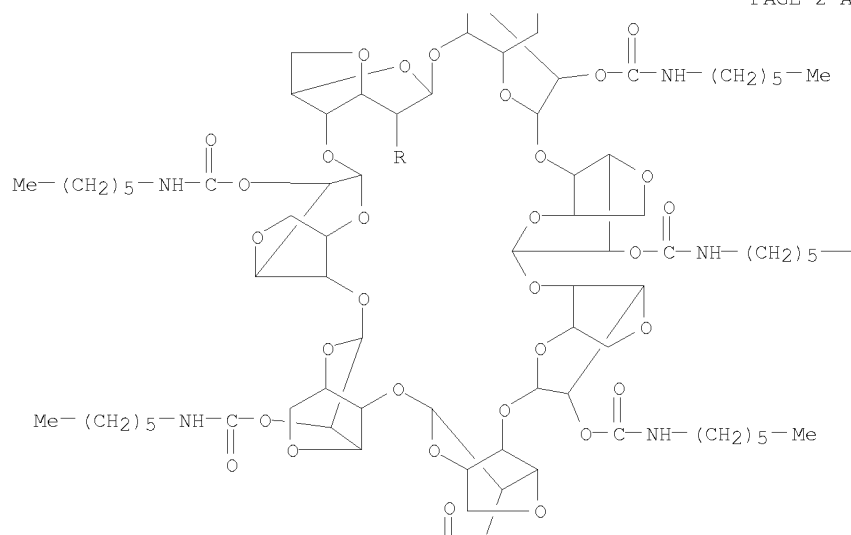
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 α -D-mannopyranosyl-(1 \rightarrow 4)-O-3,6-anhydro-2-O-
[(hexylamino)carbonyl]- α -D-mannopyranosyl-(1 \rightarrow 4)-O-3,6-anhydro-

2-O-[(hexylamino)carbonyl]- α -D-mannopyranosyl-(1 \rightarrow 4)-O-3,6-anhydro-2-O-[(hexylamino)carbonyl]- α -D-mannopyranosyl-(1 \rightarrow 4)-O-3,6-anhydro-2-O-[(hexylamino)carbonyl]- α -D-mannopyranosyl-(1 \rightarrow 4)-, 2-(hexylcarbamate), cyclic 1,4''''''-anhydride (9CI) (CA INDEX NAME)

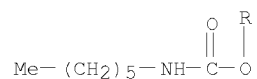
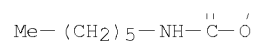
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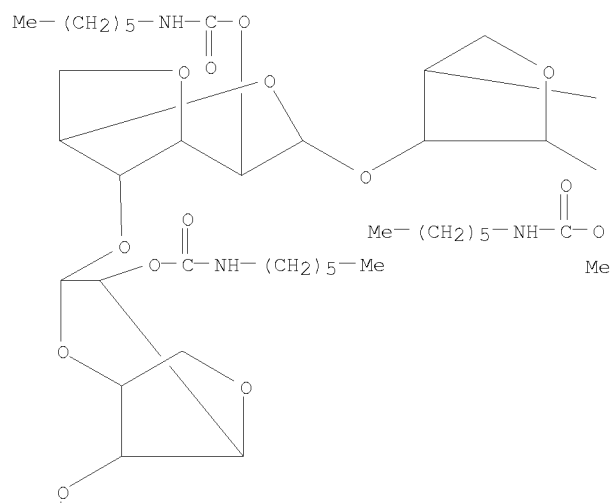


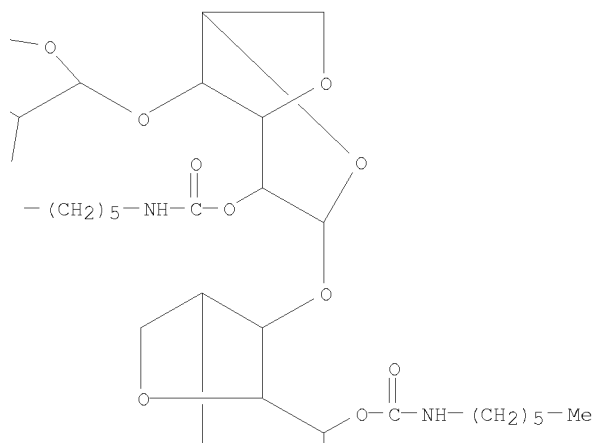
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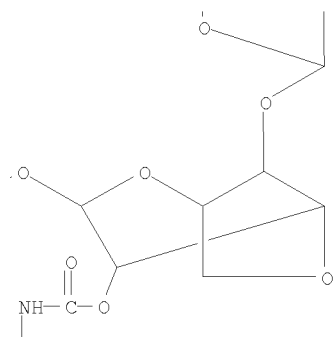
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *



RN 636599-69-4 CAPLUS

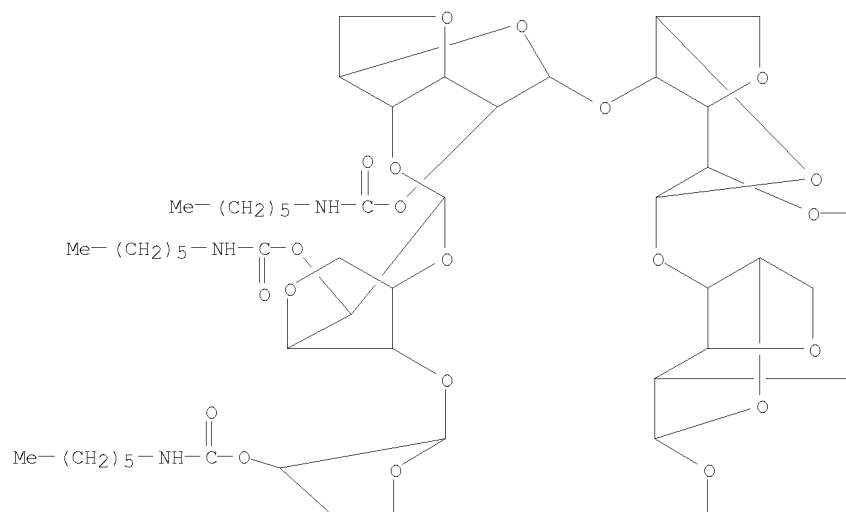
CN α -D-Mannopyranose, O-3,6-anhydro-2-O-[(hexylamino)carbonyl]- α -D-mannopyranosyl-(1 \rightarrow 4)-O-3,6-anhydro-2-O-[(hexylamino)carbonyl]- α -D-mannopyranosyl-(1 \rightarrow 4)-O-3,6-anhydro-2-O-[(hexylamino)carbonyl]- α -D-mannopyranosyl-(1 \rightarrow 4)-O-3,6-anhydro-2-O-[(hexylamino)carbonyl]- α -D-mannopyranosyl-(1 \rightarrow 4)-O-3,6-anhydro-2-O-[(hexylamino)carbonyl]- α -D-mannopyranosyl-(1 \rightarrow 4)-, 2-(hexylcarbamate), cyclic 1,4''''-anhydride, polymer with 1,6-diisocyanatohexane (9CI) (CA INDEX NAME)

CM 1

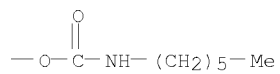
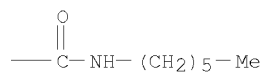
CRN 636599-66-1

CMF C78 H126 N6 O30

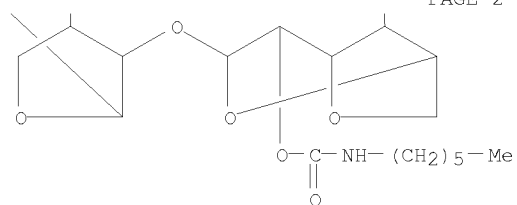
PAGE 1-A



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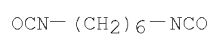


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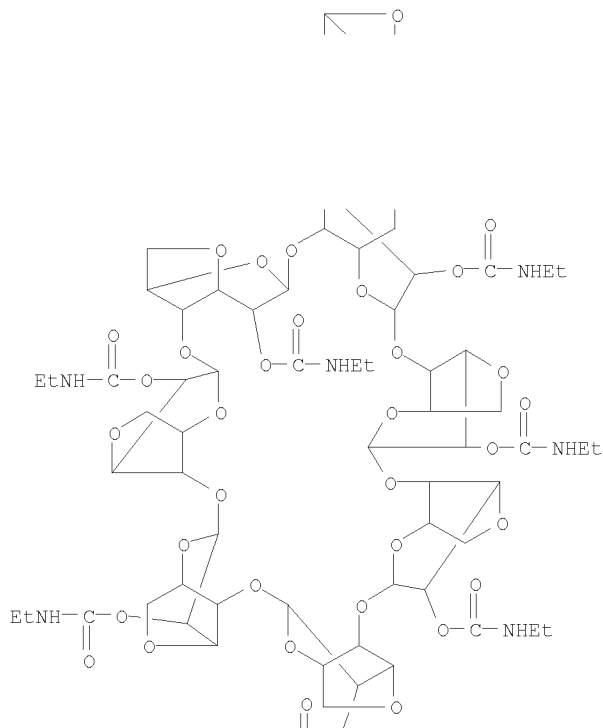


CM 2

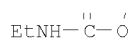
CRN 822-06-0
 CME C8 H12 N2 O2



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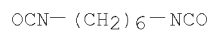


PAGE 2-A



CM 2

CRN 822-06-0
CMF C8 H12 N2 O2

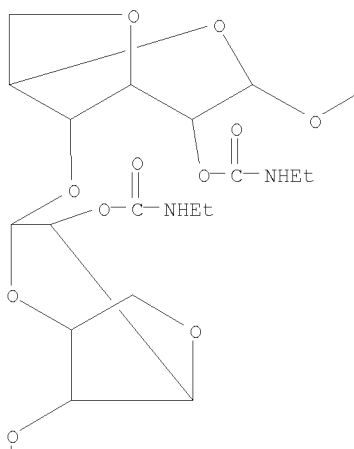


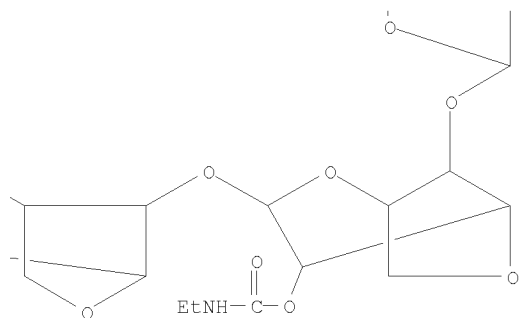
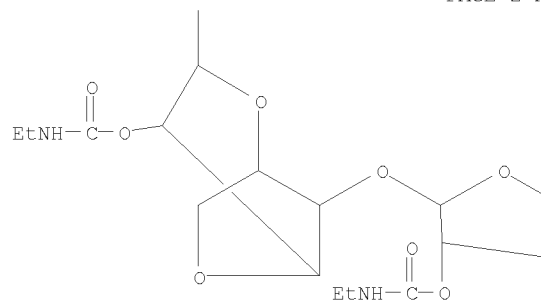
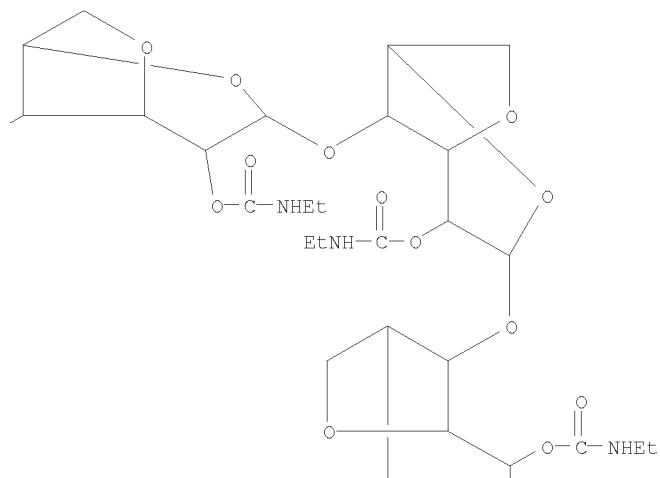
RN 636599-71-8 CAPLUS

CN α -D-Mannopyranose, 0-3,6-anhydro-2-O-[(ethylamino)carbonyl]- α -D-mannopyranosyl-(1 \rightarrow 4)-0-3,6-anhydro-2-O-[(ethylamino)carbonyl]- α -D-mannopyranosyl-(1 \rightarrow 4)-0-3,6-anhydro-2-O-[(ethylamino)carbonyl]- α -D-mannopyranosyl-(1 \rightarrow 4)-0-3,6-anhydro-2-O-[(ethylamino)carbonyl]- α -D-mannopyranosyl-(1 \rightarrow 4)-0-3,6-anhydro-2-O-[(ethylamino)carbonyl]- α -D-mannopyranosyl-(1 \rightarrow 4)-0-3,6-anhydro-2-O-[(ethylamino)carbonyl]- α -D-mannopyranosyl-(1 \rightarrow 4)-, 2-(ethylcarbamate), cyclic 1,4''''''-anhydride, polymer with 1,6-diisocyanatohexane (9CI) (CA INDEX NAME)

CM 1

CRN 636599-65-0
CMF C72 H104 N8 O40





CM 2

CRN 822-06-0

CMF C8 H12 N2 O2

OCN-(CH₂)₆-NCO

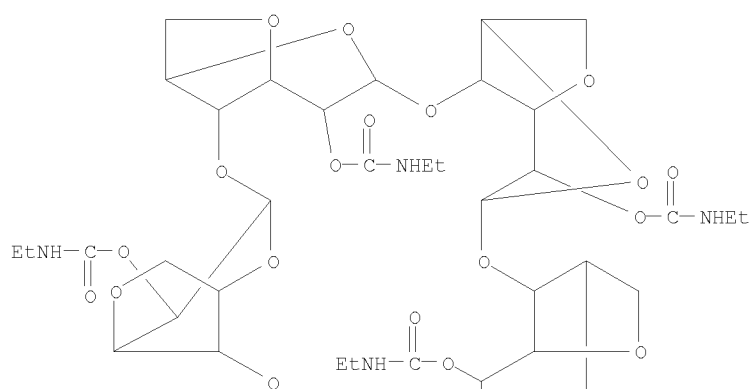
10517582

RN 636987-07-0 CAPLUS
CN α -Cyclodextrin, 3A,6A:3B,6B:3C,6C:3D,6D:3E,6E:3F,6F-hexaanhydro-,
hexakis(ethylcarbamate), polymer with 1,6-diisocyanatohexane (9CI) (CA
INDEX NAME)

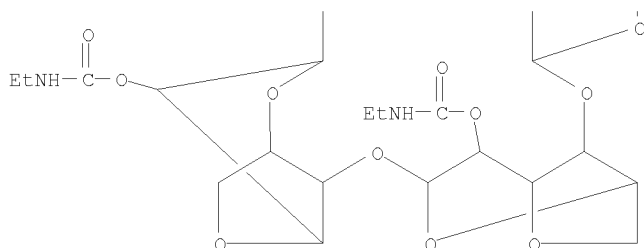
CM 1

CRN 636599-52-5
CMF C54 H78 N6 O30

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CM 2

CRN 822-06-0
CMF C8 H12 N2 O2

OCN-(CH₂)₆-NCO

RN 636987-08-1 CAPLUS
CN α -D-Mannopyranose, O-3,6-anhydro-2-O-[(ethylamino)carbonyl]- α -
D-mannopyranosyl-(1 \rightarrow 4)-O-3,6-anhydro-2-O-[(ethylamino)carbonyl]-
 α -D-mannopyranosyl-(1 \rightarrow 4)-O-3,6-anhydro-2-O-
[(ethylamino)carbonyl]- α -D-mannopyranosyl-(1 \rightarrow 4)-O-3,6-anhydro-
2-O-[(ethylamino)carbonyl]- α -D-mannopyranosyl-(1 \rightarrow 4)-O-3,6-

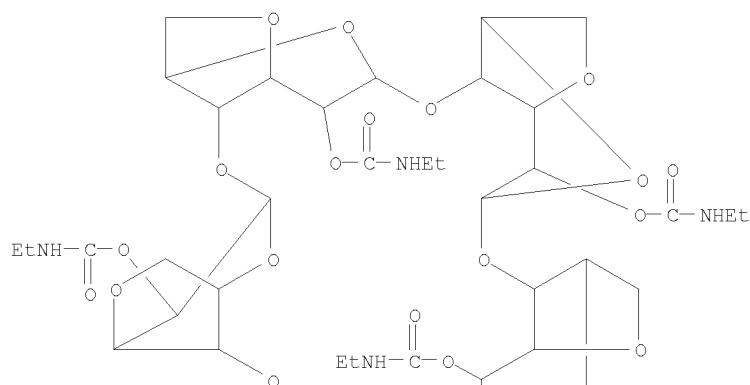
anhydro-2-O-[(ethylamino)carbonyl]- α -D-mannopyranosyl-(1 \rightarrow 4)-
3,6-anhydro-, 2-(ethylcarbamate), cyclic anhydride, polymer with
1,6-diisocyanatohexane (9CI) (CA INDEX NAME)

CM 1

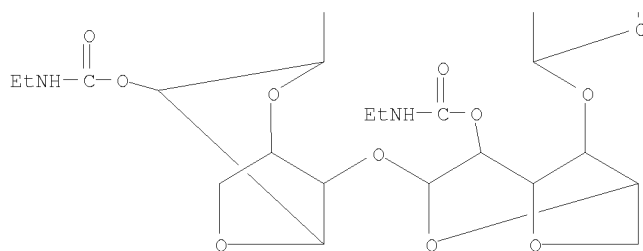
CRN 636599-63-8

CMF C54 H78 N6 O30

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CM 2

CRN 822-06-0

CMF C8 H12 N2 O2

OCN-(CH₂)₆-NCO

IT 636599-55-8DP, chromium complexes 636599-61-6P

636599-62-7P 636599-72-9P 636599-73-0P

RL: SPN (Synthetic preparation); PREP (Preparation)

(per(3,6-anhydro)cyclodextrin derivs., their preparation, and use for the
separation or fixation of anions based on manganese and chromium)

RN 636599-55-8 CAPLUS

CN α -Cyclodextrin, 3A,6A:3B,6B:3C,6C:3D,6D:3E,6E:3F,6F-hexaanhydro-,
hexakis(hexylcarbamate), polymer with 1,6-diisocyanatohexane (9CI) (CA

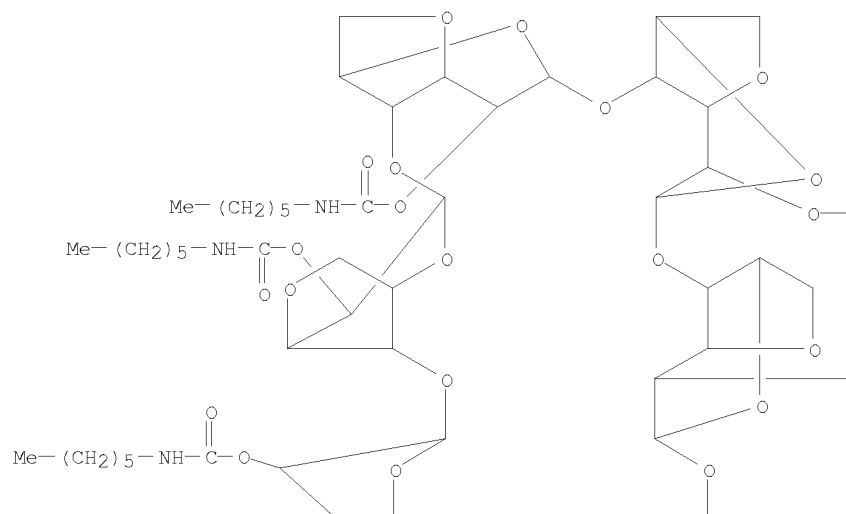
INDEX NAME)

CM 1

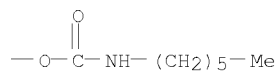
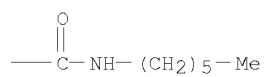
CRN 636599-53-6

CMF C78 H126 N6 O30

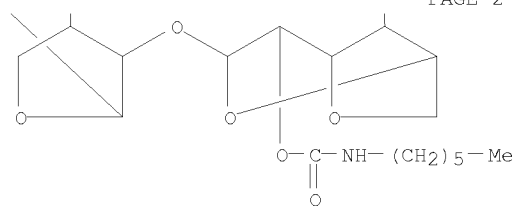
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PAGE 1-B



PAGE 2-A



10517582

CM 2

CRN 822-06-0

CMF C8 H12 N2 O2

OCN-(CH₂)₆-NCO

RN 636599-61-6 CAPLUS

CN β-Cyclodextrin, 3A,6A:3B,6B:3C,6C:3D,6D:3E,6E:3F,6F:3G,6G-heptaanhydro-, heptakis(hexylcarbamate), polymer with 1,6-diisocyanatohexane (9CI) (CA INDEX NAME)

CM 1

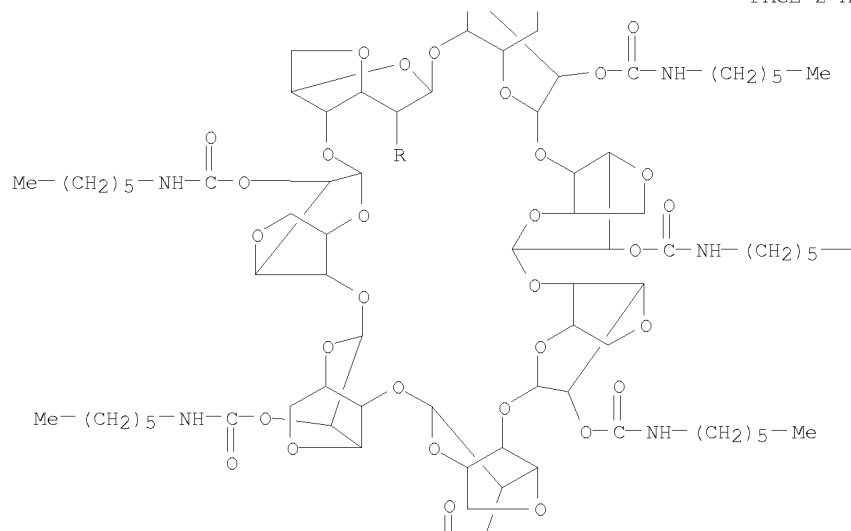
CRN 636599-57-0

CMF C91 H147 N7 O35

PAGE 1-A



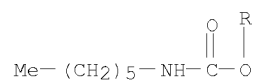
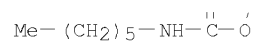
PAGE 2-A



PAGE 2-B

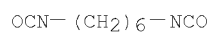
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CM 2

CRN 822-06-0
CMF C8 H12 N2 O2

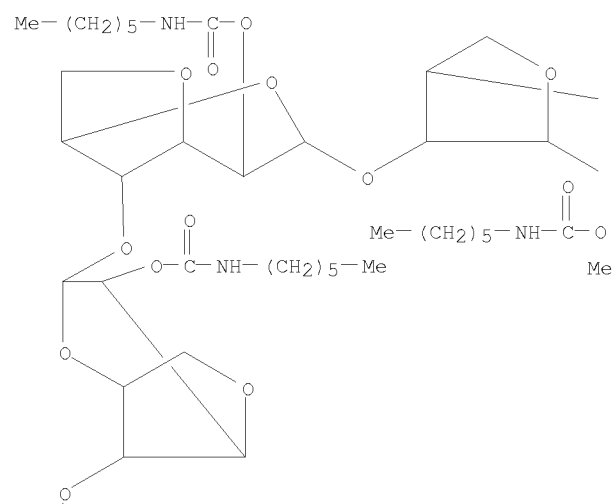


RN 636599-62-7 CAPLUS
CN γ -Cyclodextrin, 3A,6A:3B,6B:3C,6C:3D,6D:3E,6E:3F,6F:3G,6G:3H,6H-octaanhydro-, octakis(hexylcarbamate), polymer with 1,6-diisocyanatohexane (9CI) (CA INDEX NAME)

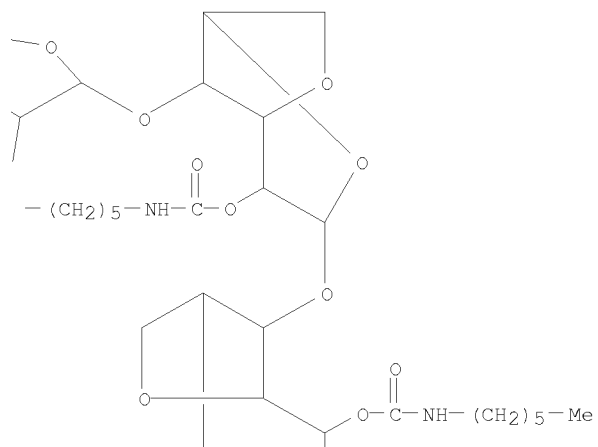
CM 1

CRN 636599-58-1
CMF C104 H168 N8 O40

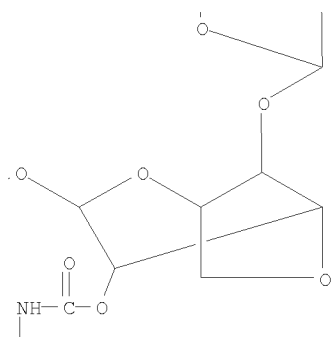
PAGE 1-A



PAGE 1-B



* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *



CM 2

CRN 822-06-0
 CMF C8 H12 N2 O2

OCN-(CH₂)₆-NCO

RN 636599-72-9 CAPLUS

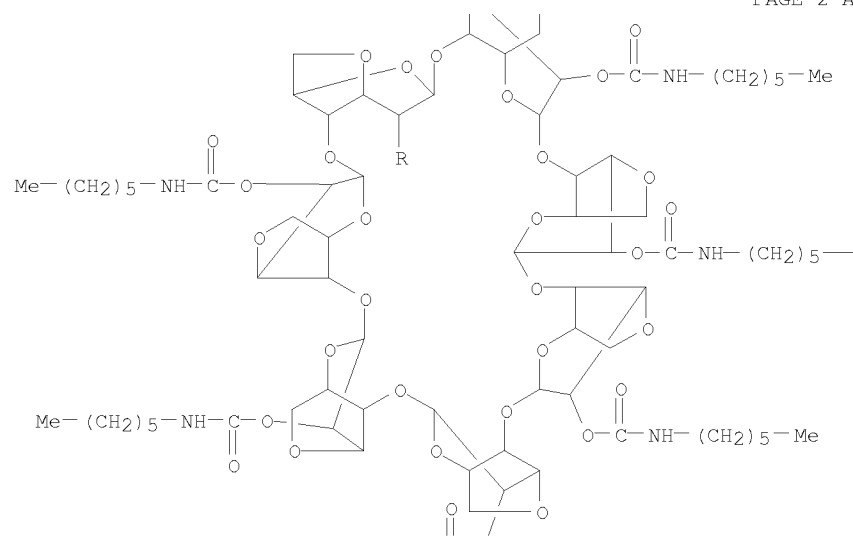
CN α -D-Mannopyranose, O-3,6-anhydro-2-O-[(hexylamino)carbonyl]- α -D-mannopyranosyl-(1 \rightarrow 4)-O-3,6-anhydro-2-O-[(hexylamino)carbonyl]- α -D-mannopyranosyl-(1 \rightarrow 4)-O-3,6-anhydro-2-O-[(hexylamino)carbonyl]- α -D-mannopyranosyl-(1 \rightarrow 4)-O-3,6-anhydro-2-O-[(hexylamino)carbonyl]- α -D-mannopyranosyl-(1 \rightarrow 4)-O-3,6-anhydro-2-O-[(hexylamino)carbonyl]- α -D-mannopyranosyl-(1 \rightarrow 4)-O-3,6-anhydro-2-O-[(hexylamino)carbonyl]- α -D-mannopyranosyl-(1 \rightarrow 4)-, 2-(hexylcarbamate), cyclic 1,4''''''-anhydride, polymer with 1,6-diisocyanatohexane (9CI) (CA INDEX NAME)

CM 1

CRN 636599-67-2
 CMF C91 H147 N7 O35



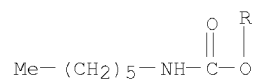
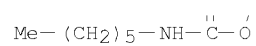
PAGE 2-A



PAGE 2-B

— Me

PAGE 3-A



CM 2

CRN 822-06-0
 CMF C8 H12 N2 O2

OCN—(CH₂)₆—NCO

RN 636599-73-0 CAPLUS

CN α -D-Mannopyranose, O-3,6-anhydro-2-O-[(hexylamino)carbonyl]- α -
 D-mannopyranosyl-(1 \rightarrow 4)-O-3,6-anhydro-2-O-[(hexylamino)carbonyl]-

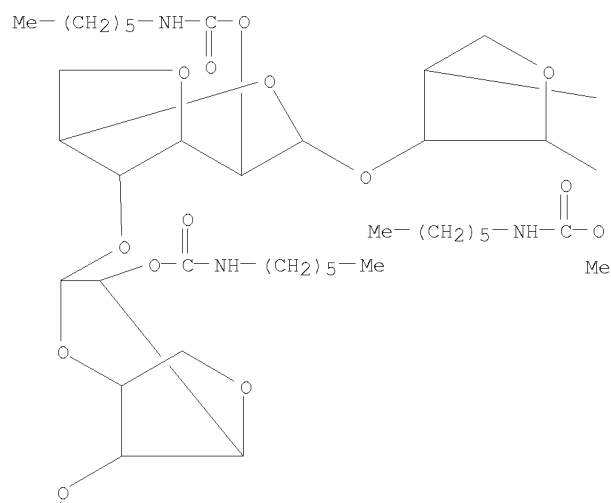
α -D-mannopyranosyl-(1 \rightarrow 4)-O-3,6-anhydro-2-O-
 [(hexylamino)carbonyl]- α -D-mannopyranosyl-(1 \rightarrow 4)-O-3,6-anhydro-
 2-O-[(hexylamino)carbonyl]- α -D-mannopyranosyl-(1 \rightarrow 4)-O-3,6-
 anhydro-2-O-[(hexylamino)carbonyl]- α -D-mannopyranosyl-
 (1 \rightarrow 4)-O-3,6-anhydro-2-O-[(hexylamino)carbonyl]- α -D-
 mannopyranosyl-(1 \rightarrow 4)-, 2-(hexylcarbamate), cyclic
 1,4''''''-anhydride, polymer with 1,6-diisocyanatohexane (9CI) (CA INDEX
 NAME)

CM 1

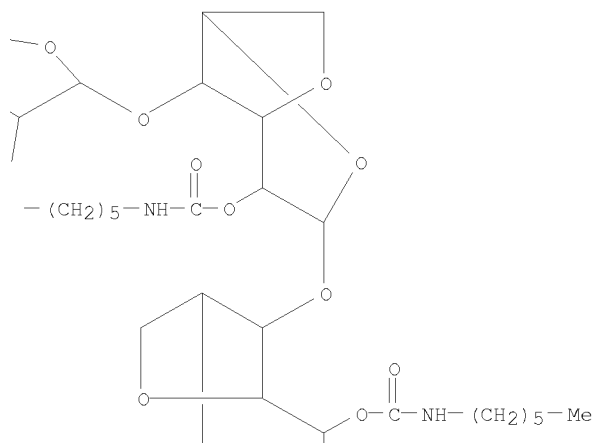
CRN 636599-68-3

CMF C104 H168 N8 O40

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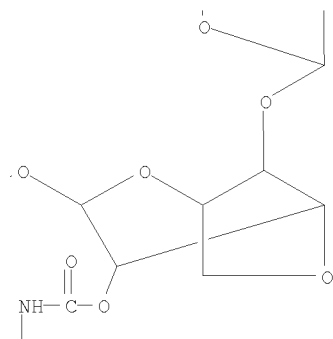


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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

PAGE 2-B



CM 2

CRN 822-06-0

CME C8 H12 N2 O2

OCN-(CH₂)₆-NCO

REFERENCE COUNT:

6

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT